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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,951	10/23/2003	Ronald A. Holland	C043770/0126119	6317
49328 7	590 12/20/2005		EXAM	INER
BRYAN CAVE LLP 211 NORTH BROADWAY			LUM VANNUCCI, LEE SIN YEE	
SUITE 3600			ART UNIT	PAPER NUMBER
ST. LOUIS, MO 63102-2750			3611	

DATE MAILED: 12/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summer	10/691,951	HOLLAND, RONALD A.				
Office Action Summary	Examiner	Art Unit				
The MAN DISTRICT	Lee Lum	3611				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>23 October 2003</u> .						
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-5,44-48 and 54-58</u> is/are pending in	4)⊠ Claim(s) <u>1-5,44-48 and 54-58</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-5,44-48,54-58</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>15 December 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		ratent Application (PTO-152)				
C. Datast and Tendamark Office						

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DETAILED ACTION

1. A Request for Reconsideration was filed 9/29/05.

2. An amended Spec was filed 9/26/05. However, it is <u>disapproved</u> for inclusion into the application because it contains new matter as follows:

Paragraph 17 – the addition of "either brush or brushless type", "between about 10 to 1, and about 20 to 1".

Paragraph 22 – the deletion of "brushless, gearless hub-type", the addition of "a speed reduction drive... embodiment".

Paragraphs 23-25, 31-33 – all new matter, and where the latter paragraphs fail to agree with that provided in the original Spec.

3. The drawings filed 9/26/05 are objected to because the replacement figs 4-7 do not correlate with the original figs 4-7, but appear to be one drawing "off"; i.e., replacement fig 4 appears to be the replacement for original *fig* 5, etc.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency.

Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

The objection to the drawings will not be held in abeyance.

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4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 5, 44, 45, 47, 48, 54, 55, 57 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Gelhard 4541500.

Re Claims 1, 2, 5, 54, 55, 57 and 58, Gelhard discloses an electric drive vehicle/bicycle 10, comprising

Frame (fig 1, inherent),

Rear wheel 44 with sprocket 18, and multi-speed hub (unidentified), with gears 24, 25, and derailleur (c3, ln 40-44),

Gearless DC electric motor 15 (c2, In 58) with

A rotatable assembly, including sprocket 30 fixed to the assembly, and a fixed assembly/housing by which the motor is mounted to the frame (via element 28),

Engaging chain 17, and rear wheel sprocket 18, and transferring motion from the motor to the wheel,

Pedal crank assembly 11 including chain wheel 12, and

Uni-directional drive(s), comprising elements 16, 30, 31, and other elements included in the freewheeling devices on the bicycle, as provided in c2, ln 63, to c3, ln 49,

engaging the rotatable assembly of the motor and the crank assembly for transferring motion from the pedal crank to the motor, but not vice versa -

Whereby either/both crank and motor drives the vehicle (c1, ln 31-34, and c2, ln 63, to c3, ln 49), and,

The motor can be recharged via the pedals (c3, ln 14-16).

Re Claims 44, 45, 47 and 48, the reference also discloses a method of providing an electric drive on a pedal-powered vehicle, the steps derived from the structure and/or means provided above.

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 4, 46 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gelhard in view of Rudwick 4280581.

Gelhard discloses the previously-recited elements, but does not disclose the rear hub as having internal gears. Rudwick shows this extremely well-known configuration in c6, In 21-22. It would have been obvious to one with ordinary skill in the art at the time the invention was made to include this arrangement, as shown in Rudwick, to provide speed changes for different riding situations, thus increasing enjoyment and safety, while also protecting the gears from the elements.

6. RESPONSE TO REMARKS

Upon reconsideration, Examiner has provided new rejections obviating all recited elements. She apologizes for the inconvenience.

7. Communication with USPTO/Examiner

Any inquiry concerning this communication, or others, should be directed to Ms. Lum at 571 272-6649, M-Th, 9-6. If she cannot be reached, her supervisor, Ms. Morris may be reached at 571 272-6651. Our fax number is 703 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications: private PAIR. For published applications: private or public PAIR. Questions re private PAIR: contact the Electronic Business Center (EBC) at 866 217-9197.

Ms. Lee S. Lum-Vannucci

Examiner 12/8/05

Lede DM oms

LESLEY D. MORRIS
SUPERVISORY PATENT EXAMINER
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